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03/29/00
U.S. PTO

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No. 1659.0870000

First Inventor or Application Identifier Fullerton et al.

Title Apparatus, System and Method for Flip Modulation in an Impulse Radio Communications System

Express Mail Label No.

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1659-087-000
PTO/SB/05 (2/98)

1659-087-000
PTO/SB/05 (2/98)

1. * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)

2. Specification [Total Pages 97]
(preferred arrangement set forth below)
 Descriptive title of the Invention
 Cross References to Related Applications
 Statement Regarding Fed sponsored R & D
 Reference to Microfiche Appendix
 Background of the Invention
 Brief Summary of the Invention
 Brief Description of the Drawings (if filed)
 Detailed Description
 Claim(s)
 Abstract of the Disclosure

3. Drawing(s) (35 U.S.C. 113) [Total Sheets 33]

4. Oath or Declaration [Total Pages]
a. Newly executed (original or copy)
b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed)
[Note Box 5 below]

i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).

5. Incorporation By Reference (useable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. Microfiche Computer Program (Appendix)

7. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
a. Computer Readable Copy
b. Paper Copy (identical to computer copy)
c. Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. Assignment Papers (cover sheet & document(s))

9. 37 CFR 3.73(b) Statement Power of Attorney
(when there is an assignee)

10. English Translation Document (if applicable)

11. Information Disclosure Copies of IDS Citations Statement (IDS)/PTO-1449

12. Preliminary Amendment

13. Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)

14. *Small Entity Statement(s) (PTO/SB/09-12) Statement filed in prior application, Status still proper and desired

15. Certified Copy of Priority Document(s) (if foreign priority is claimed)

16. Other: 37 C.F.R. § 1.136(a)(3) Authorization
 Other:

*NOTE FOR ITEMS 1 & 14: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

Continuation Divisional Continuation-in-Part (CIP) of prior application No: /
Prior application information: Examiner _____ Group/Art Unit: _____

18. CORRESPONDENCE ADDRESS

Customer Number
or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or Correspondence address below

NAME	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.				
	Attorneys at Law				
ADDRESS	Suite 600, 1100 New York Avenue, N.W.				
CITY	Washington	STATE	DC	ZIP CODE	20005-3934
COUNTRY	USA	TELEPHONE	(202) 371-2600	FAX	(202) 371-2540

NAME (Print/Type)	Jeffrey R. Kurin	Registration No. (Attorney/Agent)	41,132
SIGNATURE	Jeffrey R. Kurin		
Date	3/29/00		

Burden Hour Statement: this form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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FEE TRANSMITTAL for FY 2000				Complete if Known	
<i>Patent fees are subject to annual revision. Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB-09-12. See 37 C.F.R. §§ 1.27 and 1.28.</i>				Application Number	(to be assigned)
				Filing Date	Herewith
				First Named Inventor	Fullerton et al.
				Examiner Name	(to be assigned)
				Group / Art Unit	(to be assigned)
TOTAL AMOUNT OF PAYMENT		(\$ 0.00)		Attorney Docket Number	1659.0870000

METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)					
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:		3. ADDITIONAL FEES					
Deposit Account Number	19-0036		Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
Deposit Account Name	Sterne, Kessler, Goldstein & Fox P.L.L.C.		105	130	205	65	Surcharge - late filing fee or oath
		<input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17					
2. <input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other*		*Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.					
FEE CALCULATION							
1. BASIC FILING FEE							
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description		Fee Paid	
101	690	201	345	Utility filing fee			
106	310	206	155	Design filing fee			
107	480	207	240	Plant filing fee			
108	690	208	334	Reissue filing fee			
114	150	214	75	Provisional filing fee			
				SUBTOTAL (1) (\$)		0.00	
2. EXTRA CLAIM FEES							
				Extra	Fee from below	Fee Paid	
Total Claims				77 - 20** =	57 X \$18.00 =	\$0.00	
Indep. Claims				10 - 3** =	7 X \$78.00 =	\$0.00	
Multiple Dependent				\$260.00 =		\$0.00	
** or number previously paid, if greater; For Reissues, see below							
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description			
103	18	203	9	Claims in excess of 20			
102	78	202	39	Independent claims in excess of 3			
104	260	204	130	Multiple dependent claim			
108	78	209	39	**Reissue independent claims over original patent			
110	18	210	9	**Reissue claims in excess of 20 and over original patent			
				SUBTOTAL (2) (\$)		0.00	
Other fee (specify):							
Other fee (specify):							
*Reduced by Basic Filing Fee Paid							
						SUBTOTAL (3) (\$)	
						0.00	

SUBMITTED BY				Complete (if applicable)	
Typed or Printed Name	Jeffrey R. Kurin Attorney for Applicants			Reg. Number	41,132
Signature				Date	3/29/00
Deposit Acct. User ID					

WARNING:

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STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

ATTORNEYS AT LAW

1100 NEW YORK AVENUE, N.W., SUITE 600
WASHINGTON, D.C. 20005-3934

(202) 371-2600

FACSIMILE: (202) 371-2540; (202) 371-6566

ROBERT GREENE STERNE
EDWARD J. KESSLER
JORGE A. GOLDSTEIN
SAMUEL L. FOX
DAVID K.S. CORNWELL
ROBERT W. EDMOND
TRACY-GENE G. DURKIN
MICHELE A. CIMBALA
MICHAEL B. RAY
ROBERT E. SOKOHL
ERIC K. STEFFE
MICHAEL Q. LEE

STEVEN R. LUDWIG
JOHN M. COVERT*
LINDA E. ALCORN
RAZ E. FLESHNER
ROBERT C. MILLONIG
MICHAEL V. MESSINGER
JUDITH U. KIM
TIMOTHY J. SHEA, JR.
DONALD R. MCPHAIL
PATRICK E. GARRETT
STEPHEN G. WHITESIDE
JEFFREY T. HELVEY*

HEIDI L. KRAUS
JEFFREY R. KURIN
RAYMOND MILLIEN
PATRICK D. O'BRIEN
LAWRENCE B. BUGAISKY
CRYSTAL D. SAYLES*
EDWARD W. YEE
ALBERT L. FERRO*
DONALD R. BANOWIT
PETER A. JACKMAN
MOLLY A. McCALL

TERESA U. MEDLER
JEFFREY S. WEAVER
KRISTIN K. VIDOVICH
KENDRICK P. PATTERSON
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VINCENT L. CAPUANO
JOHN A. HARROUN*
MATTHEW M. CATLETT*
NATHAN K. KELLEY*
ALBERT J. FASULO II *

KAREN R. MARKOWICZ*
SUZANNE E. ZISKA**
BRIAN J. DEL BUONO**
ANDREA J. KAMAGE**
NANCY J. LEITH**
TARJA H. NAUKKARINEN

*BAR OTHER THAN D.C.
**REGISTERED PATENT AGENTS



March 29, 2000

WRITER'S DIRECT NUMBER:

(202) 789-5524

INTERNET ADDRESS:

JKURIN@SKGF.COM

Assistant Commissioner for Patents
Washington, D.C. 20231

Box Patent Application

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)
Appl. No. (to be assigned); Filed: Herewith
For: **Apparatus, System and Method for Flip Modulation in an Impulse
Radio Communications System**
Inventors: Fullerton *et al.*
Our Ref: 1659.0870000

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.
Patent and Trademark Office:

1. U.S. Utility Patent Application entitled:

**Apparatus, System and Method for Flip Modulation in an Impulse Radio
Communications System**

and naming as inventors:

Larry W. Fullerton
James L. Richards
Ivan A. Cowie
David M. Dickson
Vernon R. Brethour
Preston Jett



03/29/00 1054253692

Assistant Commissioner for Patents
March 29, 2000
Page 2

the application comprising:

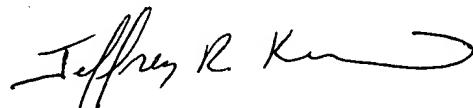
- a. specification containing:
 - i. 74 pages of description prior to the claims;
 - ii. 22 pages of claims (77 claims);
 - iii. a one (1) page abstract;
- b. 33 sheets of drawings: (Figures 1A, 1B, 2A, 2B, 3, 4, 5A, 5B, 6, 7, 8, 9, 10A, 10B, 11A, 11B, 12, 13, 14, 15, 16A, 16B, 17, 18, 19A, 19B, 20A, 20B, 21, 22, 23, 24, 25, 26, 27A, 27B, 28, 29, 30A, 30B, 30C, 30D, 30E, 30F, 30G, 30H, 31, 32, 33A and 33B);
2. USPTO Utility Patent Application Transmittal Form PTO/SB/05;
3. Fee Transmittal (Form PTO/SB/17);
4. An Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3) (in duplicate); and
5. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

This patent application is being submitted under 37 C.F.R. § 1.53(b) without Declaration and without filing fee.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Jeffrey R. Kurin
Attorney for Applicants
Registration No. 41,132